

10/14/05

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**PASSWORD :**

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* \* \* \* \* \* \* \* \* Welcome to STN International \* \* \* \* \* \* \* \* \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,  
STN AnaVist, now available  
NEWS 4 AUG 11 STN AnaVist workshops to be held in North America  
NEWS 5 AUG 30 CA/CAPLUS - Increased access to 19th century research documents  
NEWS 6 AUG 30 CASREACT - Enhanced with displayable reaction conditions  
NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY  
NEWS 8 OCT 03 MATHDI removed from STN  
NEWS 9 OCT 04 CA/CAPLUS-Canadian Intellectual Property Office (CIPO) added  
to core patent offices  
NEWS 10 OCT 06 STN AnaVist workshops to be held in North America  
NEWS 11 OCT 13 New CAS Information Use Policies Effective October 17, 2005

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT  
MACINTOSH VERSION IS V6.0C(ENG) AND V6.0JC(JP),  
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STN Columbus \*

FILE 'HOME' ENTERED AT 16:42:29 ON 14 OCT 2005

=> file registry  
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
0 21	0 21

FILE 'REGISTRY' ENTERED AT 16:42:39 ON 14 OCT 2005  
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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 12 OCT 2005 HIGHEST RN 865114-63-2  
DICTIONARY FILE UPDATES: 12 OCT 2005 HIGHEST RN 865114-63-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

```
=> s amonafide/cn
L1          1 AMONAFIDE/CN

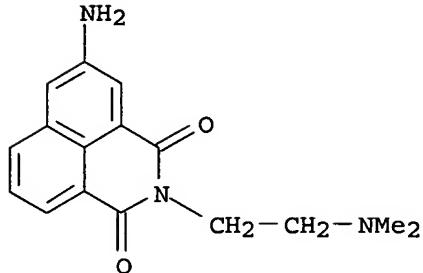
=> d

L1  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2005 ACS on STN
RN  69408-81-7  REGISTRY
ED  Entered STN: 16 Nov 1984
CN  1H-Benz[de]isoquinoline-1,3(2H)-dione, 5-amino-2-[2-(dimethylamino)ethyl]-
     (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN  Amonafide
CN  FA 142
CN  M-FA 142
CN  MADE-FA 142
CN  Nafidimide
CN  NCI 308847
CN  NSC 308847
FS  3D CONCORD
MF  C16 H17 N3 O2
CI  COM
LC  STN Files: ADISINSIGHT, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
     BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CIN, DDFU, DRUGU, EMBASE,
     IMSDRUGNEWS, IMSRESEARCH, IPA, MEDLINE, PHAR, PROMT, PROUSDDR, RTECS*,
     SCISEARCH, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL
```

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(\*File contains numerically searchable property data)  
Other Sources: WHO



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

100 REFERENCES IN FILE CA (1907 TO DATE)  
9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
100 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
=> s mitonfide/cn
L2          0 MITONFIDE/CN

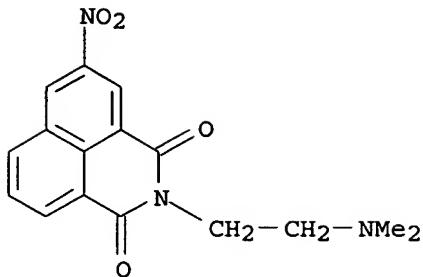
=> s mitonafide/cn
L3          1 MITONAFIDE/CN

=> d

L3  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2005 ACS on STN
RN  54824-17-8  REGISTRY
ED  Entered STN: 16 Nov 1984
CN  1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-(dimethylamino)ethyl]-5-nitro-
    (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN  3-Nitro-N-(2-dimethylaminoethyl)-1,8-naphthalimide
CN  M 4212
CN  M 4212 (pharmaceutical)
CN  Mitonafide
CN  NSC 300288
FS  3D CONCORD
MF  C16 H15 N3 O4
CI  COM
LC  STN Files: ADISINSIGHT, ADISNEWS, BEILSTEIN*, BIOBUSINESS, BIOSIS,
    BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, DDFU, DRUGU, EMBASE, IFICDB,
    IFIPAT, IFIUDB, IMSRESEARCH, IPA, MEDLINE, PHAR, PROUSDDR, RTECS*,
    SCISEARCH, TOXCENTER, USAN, USPATFULL
    (*File contains numerically searchable property data)
Other Sources: WHO
```

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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

56 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
56 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file casreact			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	21.35	21.56	

FILE 'CASREACT' ENTERED AT 16:47:46 ON 14 OCT 2005  
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FILE CONTENT:1840 - 9 Oct 2005 VOL 143 ISS 15

New CAS Information Use Policies, enter HELP USAGETERMS for details.

\*\*\*\*\*  
\*  
\* CASREACT now has more than 9.2 million reactions \*  
\*  
\*\*\*\*\*

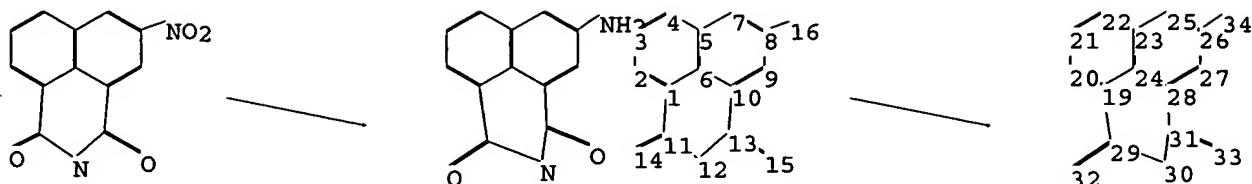
Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>  
Uploading C:\Program Files\Stnexp\Queries\10616178.str

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chain nodes :

14 15 16 32 33 34

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 19 20 21 22 23 24 25 26 27 28  
29 30 31

chain bonds :

8-16 11-14 13-15 26-34 29-32 31-33

ring bonds :

1-2 1-6 1-11 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 10-13 11-12 12-13  
19-20 19-24 19-29 20-21 21-22 22-23 23-24 23-25 24-28 25-26 26-27 27-28  
28-31 29-30 30-31

exact/norm bonds :

1-11 10-13 11-12 11-14 12-13 13-15 19-29 26-34 28-31 29-30 29-32 30-31  
31-33

exact bonds :

8-16

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 19-20 19-24 20-21 21-22  
22-23 23-24 23-25 24-28 25-26 26-27 27-28

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 19:Atom 20:Atom 21:Atom  
22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom  
31:Atom 32:CLASS 33:CLASS 34:CLASS

fragments assigned reactant/reagent role:

containing 1

L4 STRUCTURE UPLOADED

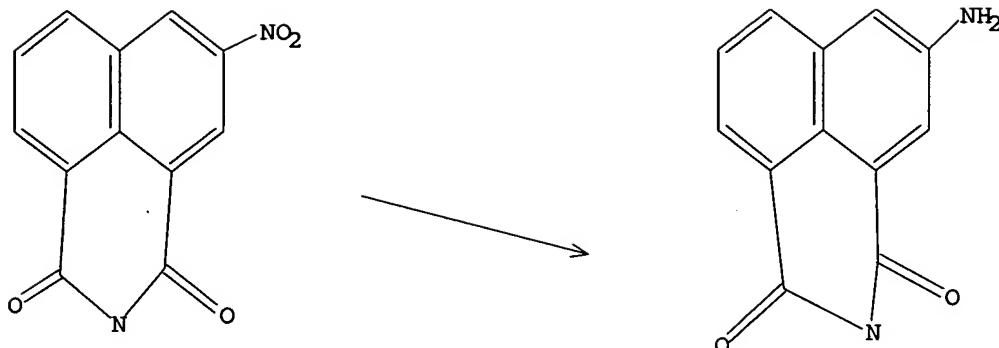
=> d 14

L4 HAS NO ANSWERS

L4 STR

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Structure attributes must be viewed using STN Express query preparation.

=> s14

SL4 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> s 14

SAMPLE SEARCH INITIATED 16:49:45 FILE 'CASREACT'

SCREENING COMPLETE - 4 REACTIONS TO VERIFY FROM

1 DOCUMENTS

100.0% DONE 4 VERIFIED 1 HIT RXNS

1 DOCS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED VERIFICATIONS: 4 TO 199

PROJECTED ANSWERS: 1 TO 79

L5 1 SEA SSS SAM L4 ( 1 REACTIONS)

=> s 14 ful

FULL SEARCH INITIATED 16:49:51 FILE 'CASREACT'

SCREENING COMPLETE - 103 REACTIONS TO VERIFY FROM

22 DOCUMENTS

100.0% DONE 103 VERIFIED 16 HIT RXNS

8 DOCS

SEARCH TIME: 00.00.01

L6 8 SEA SSS FUL L4 ( 16 REACTIONS)

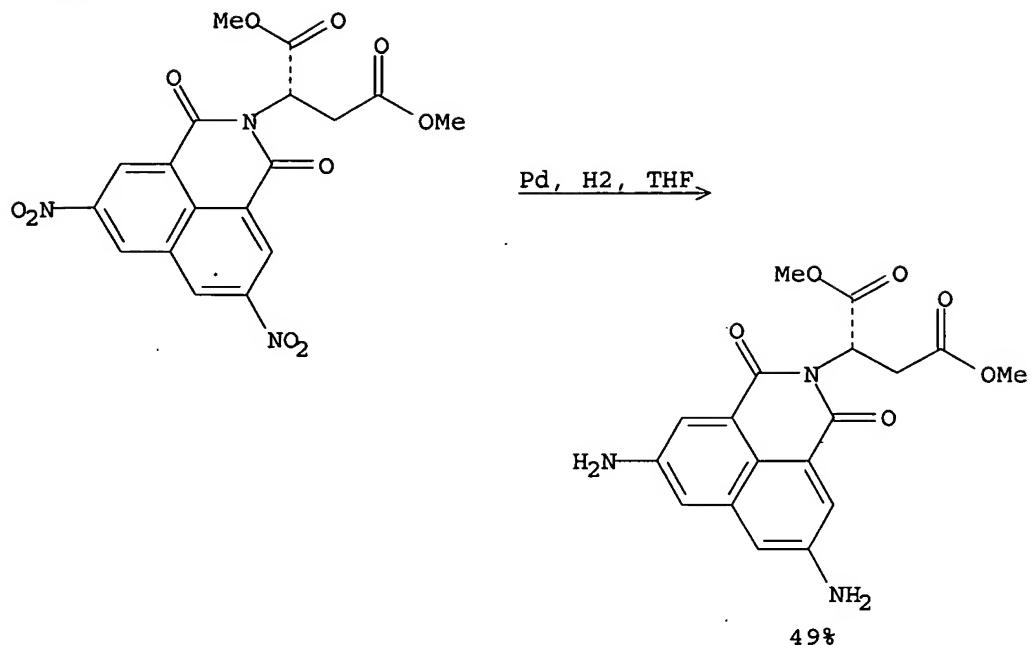
=> d 1-8

L6 ANSWER 1 OF 8 CASREACT COPYRIGHT 2005 ACS on STN

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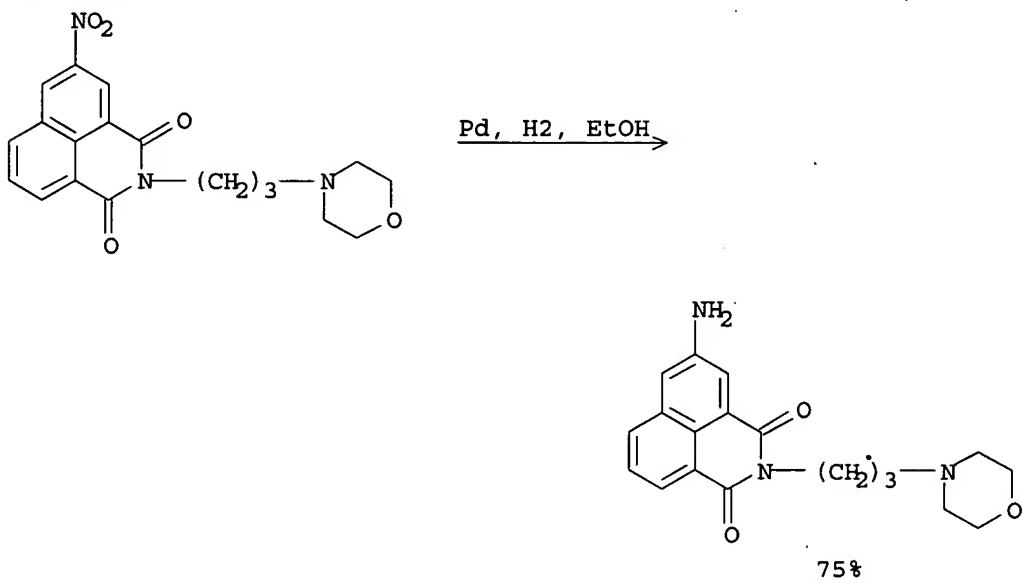
RX(19) OF 66



REF: Journal of the American Chemical Society, 127(2), 559-566; 2005  
CON: 24 hours, room temperature, 150 psi

L6 ANSWER 2 OF 8 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 27



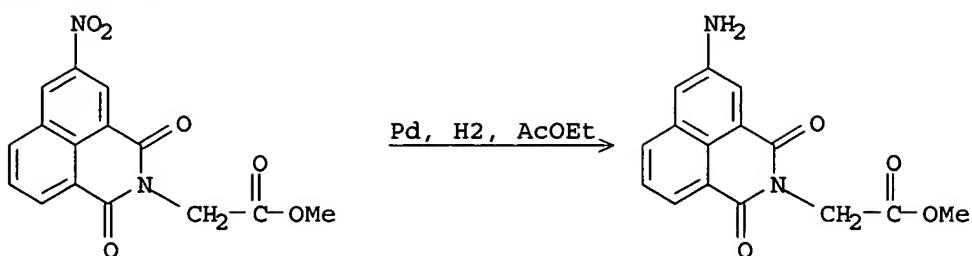
REF: Journal of Heterocyclic Chemistry, 23(3), 849-55; 1986

L6 ANSWER 3 OF 8 CASREACT COPYRIGHT 2005 ACS on STN

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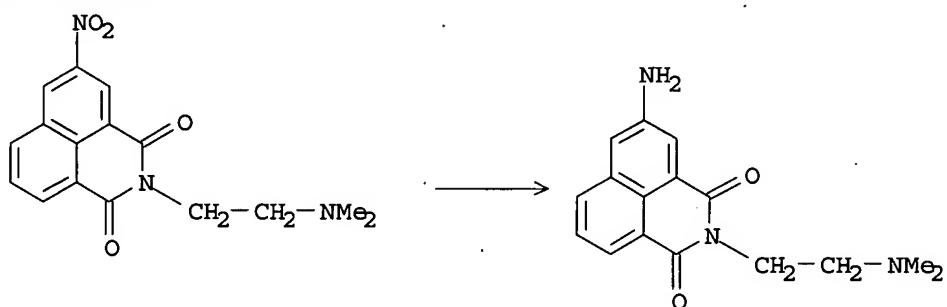
RX(3) OF 23



REF: Journal of Medicinal Chemistry, 29(11), 2384-9; 1986

L6 ANSWER 4 OF 8 CASREACT COPYRIGHT 2005 ACS on STN

RX(34) OF 60

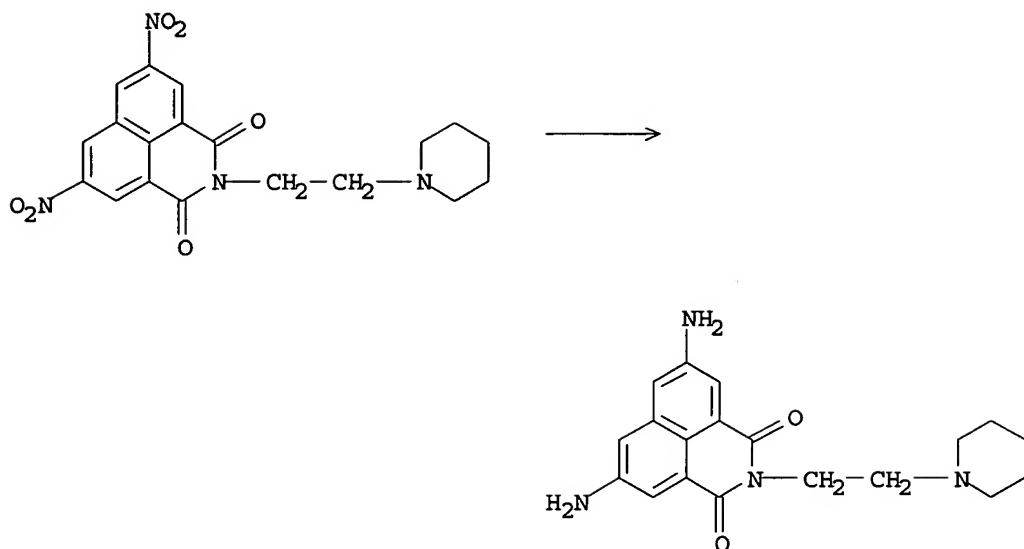


REF: Journal of Medicinal Chemistry, 28(9), 1216-22; 1985

L6 ANSWER 5 OF 8 CASREACT COPYRIGHT 2005 ACS on STN

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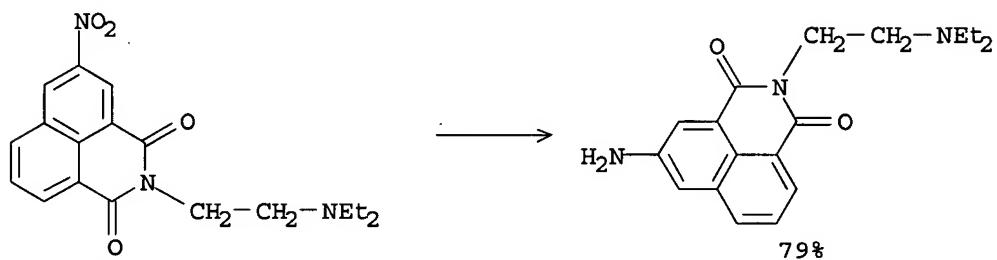
RX(2) OF 2



REF: Eur. Pat. Appl., 125439, 21 Nov 1984

L6 ANSWER 6 OF 8 CASREACT COPYRIGHT 2005 ACS on STN

RX(6) OF 44



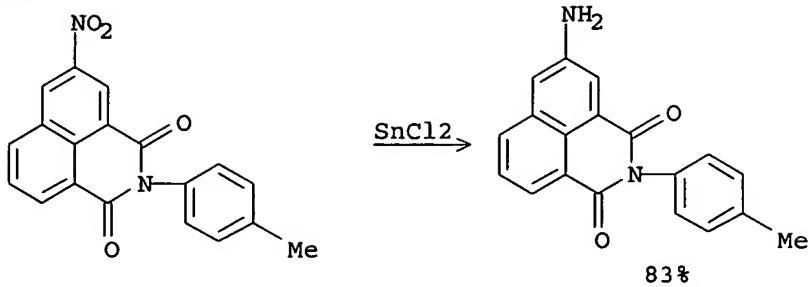
REF: Farmaco, Edizione Scientifica, 37(2), 105-15; 1982

L6 ANSWER 7 OF 8 CASREACT COPYRIGHT 2005 ACS on STN

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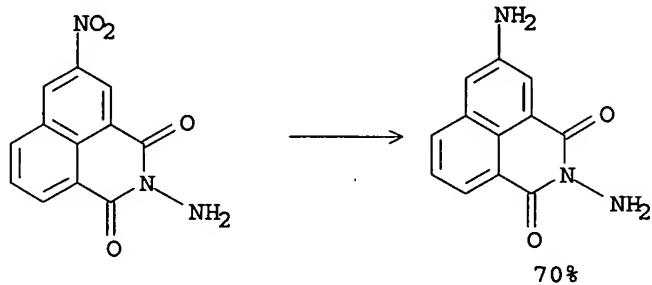
RX(1) OF 3



REF: Hoppe-Seyler's Zeitschrift fuer Physiologische Chemie, 358(4), 505-11; 1977

L6 ANSWER 8 OF 8 CASREACT COPYRIGHT 2005 ACS on STN

RX(4) OF 39



REF: Stsintillyatory i Organ. Lyuminofory, (4), 5-15; 1975

=> s 15 and ammonium formate

12413 AMMONIUM  
11 AMMONIUMS  
12415 AMMONIUM  
(AMMONIUM OR AMMONIUMS)  
3218 FORMATE  
308 FORMATES  
3302 FORMATE  
(FORMATE OR FORMATES)  
370 AMMONIUM FORMATE  
(AMMONIUM (W) FORMATE)

L7 0 L5 AND AMMONIUM FORMATE

=> d his

(FILE 'HOME' ENTERED AT 16:42:29 ON 14 OCT 2005)

FILE 'REGISTRY' ENTERED AT 16:42:39 ON 14 OCT 2005

L1 1 S AMONAFIDE/CN  
L2 0 S MITONFIDE/CN  
L3 1 S MITONAFIDE/CN

FILE 'CASREACT' ENTERED AT 16:47:46 ON 14 OCT 2005

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L4 STRUCTURE UPLOADED  
L5 1 S L4  
L6 8 S L4 FUL  
L7 0 S L5 AND AMMONIUM FORMATE

=> s 16 and ammonium  
12413 AMMONIUM  
11 AMMONIUMS  
12415 AMMONIUM  
(AMMONIUM OR AMMONIUMS)  
L8 0 L6 AND AMMONIUM

=> s 16 and formate  
3218 FORMATE  
308 FORMATES  
3302 FORMATE  
(FORMATE OR FORMATES)  
L9 0 L6 AND FORMATE

=> file registry  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 138.53 160.09

FILE 'REGISTRY' ENTERED AT 16:53:09 ON 14 OCT 2005  
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STRUCTURE FILE UPDATES: 12 OCT 2005 HIGHEST RN 865114-63-2  
DICTIONARY FILE UPDATES: 12 OCT 2005 HIGHEST RN 865114-63-2

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\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.43	160.52

FILE 'CAPLUS' ENTERED AT 16:53:14 ON 14 OCT 2005  
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FILE COVERS 1907 - 14 Oct 2005 VOL 143 ISS 17  
FILE LAST UPDATED: 13 Oct 2005 (20051013/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 16  
L10 8 L6

=> d abs bib hitstr 1-8

L10 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
AB A series of aromatic compds. were prepared bearing two maleimide groups attached directly to the fluorescent cores. The resulting derivs. do not fluoresce until the maleimide groups undergo their typical thiol addition reaction, thus removing their ability to quench fluorescence, as shown by kinetic and spectral characterization studies. In this way, the title compds. serve as fluorogens capable of detection of small thiols or appropriately sized dithiols. Recombinant  $\alpha$ -helical proteins were then designed to bear two cysteine residues capable of regioselective dithiol addition reaction with the dimaleimide fluorogens, thus acting as spatially encoded substrates that form specifically labeled covalent complexes. The efficiency of this in vitro fluorescent protein-labeling reaction demonstrates the feasibility of the development of a method for the fluorescent labeling of specific recombinant proteins.

AN 2004:1086414 CAPLUS

DN 142:218826

TI Synthesis and Characterization of Dimaleimide Fluorogens Designed for Specific Labeling of Proteins

AU Girouard, Stephane; Houle, Marie-Helene; Grandbois, Alain; Keillor, Jeffrey W.; Michnick, Stephen W.

CS Department of Chemistry, Department of Biochemistry, Universite de Montreal, Montreal, QC, H3C 3J7, Can.

SO Journal of the American Chemical Society (2005), 127(2), 559-566  
CODEN: JACSAT; ISSN: 0002-7863

PB American Chemical Society

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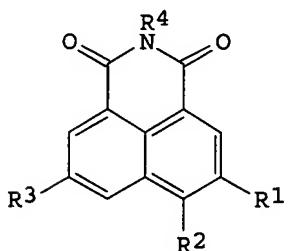
DT Journal

LA English

OS CASREACT 142:218826

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
GI



AB Title compds. I (R1 = H, NH<sub>2</sub>, OH, MeO, NO<sub>2</sub>, NHAc; R2 = H, NH<sub>2</sub>, NHCH<sub>2</sub>CH<sub>2</sub>OH, SBu, R3 = H, NH<sub>2</sub>; R4 = CH<sub>2</sub>CH<sub>2</sub>OH, morpholinopropyl, bromopropyl) have been prepared and their fluorescence yields measured in water at pH 7.4. The type of substituent and the substitution pattern on the naphthalimide nucleus produce markedly different fluorescence yields (quantum efficiencies,  $\phi$ ) varying from  $\phi$  = 0.0037 for N-(3-morpholinopropyl)-4-amino-3-methoxy-1,8-naphthalimide to  $\phi$  = 0.77 for N-(3-bromopropyl)-4-acetamido-1,8-naphthalimide.

AN 1987:119668 CAPLUS

DN 106:119668

TI Synthesis and fluorescence of N-substituted-1,8-naphthalimides

AU Middleton, Richard W.; Parrick, John; Clarke, Eric D.; Wardman, Peter

CS Dep. Chem., Brunel Univ., Uxbridge/Middlesex, UB8 3PH, UK

SO Journal of Heterocyclic Chemistry (1986), 23(3), 849-55

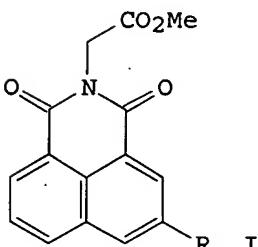
CODEN: JHTCAD; ISSN: 0022-152X

DT Journal

LA English

OS CASREACT 106:119668

L10 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
GI



AB 5-Isothiocyanatoalrestatin (I; R = NCS) and 5-azidoalrestatin (I; R = N<sub>3</sub>) were prepd synthetically from 3-nitro-1,8-naphthalic acid anhydride and examined as potential affinity and photoaffinity inhibitors of rat lens.

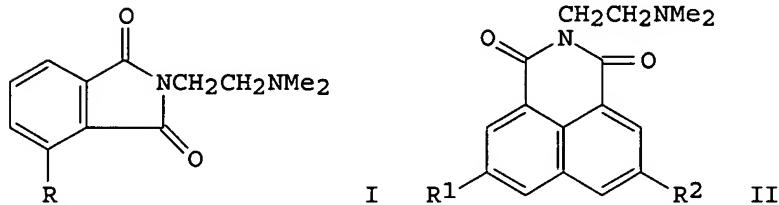
10616178

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aldose reductase. Both compound I under appropriate conditions at 10<sup>-4</sup> M produced a 70% irreversible inactivation of aldose reductase within 1 min. The enzyme could, in part, be protected by preincubation with sorbinil, a known potent inhibitor of aldose reductase.

AN 1987:4841 CAPLUS  
DN 106:4841  
TI Synthesis and biological evaluation of irreversible inhibitors of aldose reductase  
AU Ares, Jeffrey J.; Kador, Peter F.; Miller, Duane D.  
CS Coll. Pharm., Ohio State Univ., Columbus, OH, 43210, USA  
SO Journal of Medicinal Chemistry (1986), 29(11), 2384-9  
CODEN: JMCMAR; ISSN: 0022-2623  
DT Journal  
LA English  
OS CASREACT 106:4841

L10 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
GI



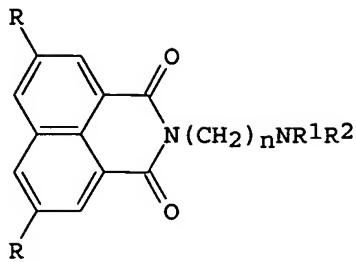
AB A wide variety of N-(aminoalkyl) substituted cyclic imides, e.g. I (R = H, NO<sub>2</sub>, Cl) and II (R<sub>1</sub> = H, NO<sub>2</sub>, R<sub>2</sub> = NO<sub>2</sub>, R<sub>1</sub> = R<sub>2</sub> = NH<sub>2</sub>) were prepared usually from the corresponding anhydrides and diamines. Preliminary biol. activity screening indicated N-(dialkylamino)imides of the 3,6-dinitro- and 3,6-diamino-1,8-naphthalic acid system possessed prominent antileukemic and antimelanoma activity in both in vitro and in vivo tumor systems.

AN 1985:487740 CAPLUS  
DN 103:87740  
TI N-(Aminoalkyl)imide antineoplastic agents. Synthesis and biological activity  
AU Zee-Cheng, Robert K. Y.; Cheng, C. C.  
CS Med. Cent., Univ. Kansas, Kansas City, KS, 66103, USA  
SO Journal of Medicinal Chemistry (1985), 28(9), 1216-22  
CODEN: JMCMAR; ISSN: 0022-2623  
DT Journal  
LA English  
OS CASREACT 103:87740

L10 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
GI

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AB The title compds. (I, R = O<sub>2</sub>N, H<sub>2</sub>N; R<sub>1</sub>, R<sub>2</sub> = H, alkyl, hydroxyalkyl; NR<sub>1</sub>R<sub>2</sub> = pyrrolidino, morpholino, piperidino; n = 2,3) were prepared. Thus, 3,6-dinitro-1,8-naphthalic anhydride in PhMe was treated with N-(2-aminoethyl)piperidine at room temperature 1 h and refluxed azeotropically

1 h to give 73% I (R = O<sub>2</sub>N, NR<sub>1</sub>R<sub>2</sub> = piperidino, n = 2), which inhibited mouse L1210 leukemia cell growth with an ID<sub>50</sub> of 2.9 + 10<sup>-7</sup>M and at 100 mg/mL gave an inhibition zone diameter of 24 mm with *Bacillus subtilis* 04555 in the agar-disk diffusion assay.

AN 1985:113325 CAPLUS

DN 102:113325

TI 3,6-Disubstituted-1,8-naphthalimides

IN Zee-Cheng, Robert Kwang Yuen; Cheng, Chia Chung

PA Warner-Lambert Co., USA

SO Eur. Pat. Appl., 36 pp.

CODEN: EPXXDW

DT Patent

LA English

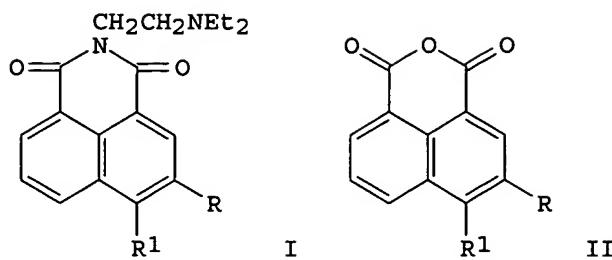
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 125439	A2	19841121	EP 1984-103254	19840323
	EP 125439	A3	19851204		
	EP 125439	B1	19900124		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	US 4499266	A	19850212	US 1983-481122	19830401
	AT 49753	E	19900215	AT 1984-103254	19840323
	JP 60001166	A2	19850107	JP 1984-65035	19840331
	US 4594346	A	19860610	US 1985-693050	19850122
	US 4665071	A	19870512	US 1985-692986	19850122
	US 4614820	A	19860930	US 1986-829468	19860213
PRAI	US 1983-481122	A	19830401		
	US 1984-581594	A	19840221		
	EP 1984-103254	A	19840323		
	US 1985-700343	A1	19850213		
OS	CASREACT 102:113325				

L10 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
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AB Title imides I ( $\text{R} = \text{NO}_2, \text{NH}_2, \text{NHBu}, \text{OH}, \text{OMe}, \text{Bu}; \text{R}1 = \text{H}, \text{NO}_2, \text{NH}_2$ ), which were prepared by different methods, showed local anesthetic activity; some I were prepared from the resp. anhydrides II and  $\text{H}_2\text{NCH}_2\text{CH}_2\text{N}(\text{Et})_2$ . II ( $\text{R} = \text{NO}_2, \text{R}1 = \text{H}$ ) was heated with  $\text{H}_2\text{NCH}_2\text{CH}_2\text{N}(\text{Et})_2$  in EtOH to give I ( $\text{R} = \text{NO}_2, \text{R}1 = \text{H}$ ).

AN 1982:142671 CAPLUS

DN 96:142671

TI Synthesis and local anesthetic activity of some N- $\beta$ -diethylaminoethylnaphthalimides

AU Da Settimo, A.; Primofiore, G.; Livi, O.; Tonetti, I.; Tellini, N.; Bianchini, P.

CS Ist. Chim. Farm., Univ. Pisa, Pisa, Italy

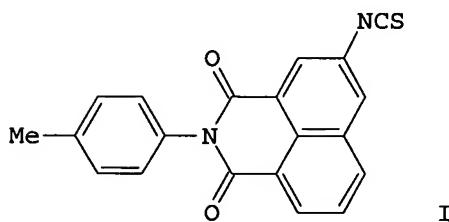
SO Farmaco, Edizione Scientifica (1982), 37(2), 105-15  
CODEN: FRPSAX; ISSN: 0430-0920

DT Journal

LA English

OS CASREACT 96:142671

L10 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
GI



AB 5-Isothiocyanato-1,3-dioxo-2-p-tolyl-2,3-dihydro-1H-benz[de]isoquinoline (=5-isothiocyanato-1,8-naphthalenedicarboxy-4-methylphenylimide) (I) was synthesized from 1H,3H-naphtho[1,8-cd]pyran-1,3-dione (=1,8-naphthalenedicarboxylic anhydride) through nitration, condensation with p-toluidine, reduction with  $\text{SnCl}_2$  yielding 5-amino-1,3-dioxo-2-p-tolyl-2,3-dihydro-1H-benz[de]isoquinoline as intermediate, and condensation with thiophosgene. I can be used for qual. and quant. analyses of compds. containing amino groups, including amino acids, amines, and proteins.

AN 1977:401943 CAPLUS

DN 87:1943

TI 5-Isothiocyanato-1,8-naphthalenedicarboxy-4-methylphenylimide, a new fluorescence reagent for compounds containing amino groups

AU Khalaf, Hosni; Rimpler, Manfred

CS Inst. Klin. Biochem. Physiol. Chem., Med. Hochsch. Hannover, Hannover, Fed. Rep. Ger.

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SO Hoppe-Seyler's Zeitschrift fuer Physiologische Chemie (1977), 358(4),  
505-11  
CODEN: HSZPAZ; ISSN: 0018-4888  
DT Journal  
LA German  
OS CASREACT 87:1943

L10 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
AB Title only translated.  
AN 1977:155621 CAPLUS  
DN 86:155621  
TI Synthesis and study of cyclic hydrazides and N-aminoamides of naphthalic acid and its derivatives  
AU Krasovitskii, B. M.; Ostis, L. L.; Shevchenko, E. A.; Nesterkina, I. G.; Isadzhanyan, V. I.  
CS USSR  
SO Stsintillyatory i Organ. Lyuminofory (1975), (4), 5-15  
From: Ref. Zh., Khim. 1976, Abstr. No. 22Zh273  
DT Journal  
LA Russian  
OS CASREACT 86:155621

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\* available and contains the CA role and document type information. \*  
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Structure search iteration limits have been increased. See HELP SLIMITS

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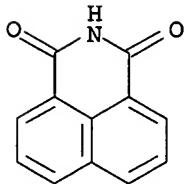
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<http://www.cas.org/ONLINE/UG/regprops.html>

=> s naphthalimide/cn  
L11 1 NAPHTHALIMIDE/CN

=> d

L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 81-83-4 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Naphthalimide (6CI, 7CI, 8CI)  
OTHER NAMES:  
CN 1,8-Naphthalenedicarboximide  
CN 1,8-Naphthalenedicarboxylic acid imide  
CN 1,8-Naphthalimide  
CN NSC 11011  
FS 3D CONCORD  
MF C12 H7 N O2  
CI COM  
LC STN Files: BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,  
CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, HODOC\*, IFICDB, IFIPAT, IFIUDB,  
PIRA, PROMT, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



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391 REFERENCES IN FILE CA (1907 TO DATE)  
105 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
392 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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FULL ESTIMATED COST	12.76	195.38
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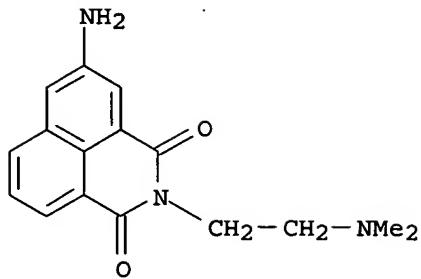
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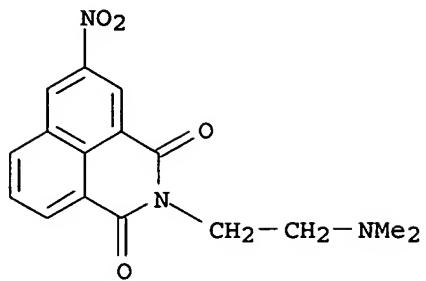
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L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 54824-17-8 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-(dimethylamino)ethyl]-5-nitro-  
(9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 3-Nitro-N-(2-dimethylaminoethyl)-1,8-naphthalimide  
CN M 4212  
CN M 4212 (pharmaceutical)  
CN Mitonafide  
CN NSC 300288  
FS 3D CONCORD  
MF C16 H15 N3 O4  
CI COM  
LC STN Files: ADISINSIGHT, ADISNEWS, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, DDFU, DRUGU, EMBASE, IFICDB,  
IFIPAT, IFIUDB, IMSRESEARCH, IPA, MEDLINE, PHAR, PROUSDDR, RTECS\*,  
SCISEARCH, TOXCENTER, USAN, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: WHO

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